

Ship July 24

Work Order ID 163076

163076

Page 1

Wednesday, June 21, 2017 11:10:33 AM

Item ID: D066-1016-115 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: R66 Basket Mounting Provisions

Start Date: 7/12/2017 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 7/24/2017 Req'd Qty: 1.00 ***1*** Customer:

Reference:

Approvals: Process Plan:  Date: JUN 21 2017 Tooling: Date: Run Start ***NR1***
 QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D066-1016	B								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP D066-1016-115 CHG001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.03							
Quality Control									

DAS
6
9-89

JUL 06 2017

DAS
28
9-89

JUL 8 2017
JUL 8 2017
JUL 18 2017

DAS
27
9-89

JUL 10 2017

DAS
27
9-89

DAS
28
9-89

JUL 18 2017

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Work Order ID 163076***163076***

Page 2

Wednesday, June 21, 2017 11:10:33 AM

Item ID: D066-1016-115 Accept ***N900040100*** Setup Start ***NS1***
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Item Name: R66 Basket Mounting Provisions
Start Date: 7/12/2017 Start Qty: 1.00 ***1*** Cust Item ID:
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging	Identify as per dwg & Stock Location: _____ Packaging Memo Identify and pack for shipping as per PPP D066-1016-115 Location: PPP162321	0.00 0.00							
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.10							

DAS 28 9-89 **DAS 27 9-89** **JUL 18 2017**

17/7/20 **JUL 19 2017**

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Wednesday, June 21, 2017 11:10:32 AM

Page 1

Work Order ID: 163076

163076

Parent Item: D066-1016-115

D066-1016-115

Parent Item Name: R66 Basket Mounting Provisions

Start Date: 7/12/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 16.01.14 NEW ISSUE DD VERF:JLM IPP
REV:B 17.03.28 as per iin rev.b DD VERF:RQ

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

AN4-12A		Purchased	No			110	Each	104.0000	8	8			
AN4-12A									**			DAS 6 9-89	JUL 10 2017 DAS 27 9-89
Bolt													

Location	Loc Qty	Loc Code
FG	10	
120423	10	
ST344	94	
m137412	94	

D5350-041		Manufactured	No			110	Each	2.0000	1	1			
D5350-041									**			DAS 6 9-89	JUL 10 2017 DAS 27 9-89
Fwd Cross Beam Assembly													

Location	Loc Qty	Loc Code
ST260B	2	
159889	2	

D5350-043		Manufactured	No			110	Each	2.0000	1	1			
D5350-043									**			DAS 6 9-89	JUL 10 2017 DAS 27 9-89
Aft Beam Assembly													

Location	Loc Qty	Loc Code
ST260B	2	
159891	2	

D5352-1		Manufactured	No			110	Each	112.0000	4	4			
D5352-1									**			DAS 6 9-89	JUL 10 2017 DAS 27 9-89
Cushion													

Location	Loc Qty	Loc Code
ST515	112	
159892	100	
161553	12	

DAS 28 9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



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Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Wednesday, June 21, 2017 11:10:32 AM

163076

D066-1016-115

Required Date: 7/24/2017

Required Qty: 1.00

JUL 10 2017

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DAS 27
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JUL 10 2017

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JUL 18 2017

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
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Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, June 21, 2017 11:10:32 AM

Page 4

Work Order ID: 163076

163076

Parent Item: D066-1016-115

D066-1016-115

Parent Item Name: R66 Basket Mounting Provisions

Start Date: 7/12/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0463J

Purchased

No

110

Each

3,889.000

8

8

NAS1149D0463J

Washer

**

JUL 10 2017

Location

Loc Qty

Loc Code

GA

40

M135056

40

ST260a

2000

M137699

2000

ST263

1849

M137371

1849

NAS1149F0563P

Purchased

No

110

Each

122.0000

4

4

NAS1149F0563P

Washer

**

JUL 10 2017

Location

Loc Qty

Loc Code

ST262

122

m136983

122

DAS 6 27
9-89 9-89

DAS 6 27
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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Misidentified ☐	Past Due ☐																																																																

5.0 PARTS LIST

Qty -011	Qty -012	Qty -111	Qty -113	Qty -115	Qty -121	Qty -123	Part Number	Description
X							D066-1016-011	R66 QR HELI-UTILITY-BASKET, LH
	X						D066-1016-012	R66 QR HELI-UTILITY-BASKET, RH
		X					D066-1016-111	CROSSTUBE CLAMP KIT
			X				D066-1016-113	CROSSTUBE CLAMP + LONGITUDINAL BEAM KIT
1	1			X			D066-1016-115	BASKET MOUNTING PROVISIONS KIT
					X		D066-1016-121	FWD LID GAS SPRING UPGRADE (OPTIONAL)
						X	D066-1016-123	FWD FIXED STEP UPGRADE (OPTIONAL)
1							D5337-011	BASKET ASSEMBLY, LH
	1						D5337-012	BASKET ASSEMBLY, RH
					2		D3953-17	GAS SPRING SPACER
					1		D3953-19	GAS SPRING BRACKET
					1		D3953-21	GAS SPRING BRACKET
					2		D3953-3	GAS SPRING STUD
					2		D3953-7	GAS SPRING SPACER
					2		D3953-9	GAS SPRING WASHER
					1		D3969-7	GAS SPRING
				1			D5350-041	R66 FWD CROSS BEAM ASSEMBLY
				1			D5350-043	R66 AFT CROSS BEAM ASSEMBLY
		4	4	4			D5352-1	CUSHION
		1	1	1			D5354-041	R66 FWD CLAMP ASSEMBLY, LH
		1	1	1			D5354-042	R66 FWD CLAMP ASSEMBLY, RH
		2	2	2			D5355-041	R66 AFT CLAMP ASSEMBLY
1	1						D5357-041	STRUT ASSEMBLY
		2	2	2			D5358-1	COVER PLATE
			1	1			D5445-041	LONGITUDINAL BEAM ASSEMBLY, LH
			1	1			D5445-042	LONGITUDINAL BEAM ASSEMBLY, RH
						1	D5510-041	FWD STEP
					2		AN310C4	NUT, CASTELLATED
					4		AN3-14A	BOLT
		8	8	8			AN4-12A	BOLT
						2	AN4-14A	BOLT
				4			MS20392-4C57	PIN
					4		MS21042L3	NUT
						2	MS21042L4	NUT
				4			MS24665-229	COTTER PIN
					2		MS24665-300	COTTER PIN
		8	8	8			MS27151-7	STAMPED NUT
					2		NAS1149C0432R	WASHER
			8	8		4	NAS1149D0463J	WASHER
				4			NAS1149F0563P	WASHER
					8		NAS1149F0332P	WASHER

Work Order ID 163076***163076***

Wednesday, June 21, 2017 11:10:33 AM

Item ID: D066-1016-115 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***

Item Name: R66 Basket Mounting Provisions

Start Date: 7/12/2017 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 7/24/2017 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Run Start ***NR1***

Approvals: Process Plan: Date: JUN 21 2017 Tooling: Date: Stop ***NR2***
 QC: Date: SPC (Y/N): Date:

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D066-1016	B								
100	Document Control	0.00							
100	DOCUMENT CONTROL	0.00							
DC	Memo								
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP D066-1016-115 CHG001								
110	Pick Kit	0.00							
110		0.00							
Packaging	Memo								
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120		0.03							
QC	Memo								
Quality Control									

DAS
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9-89

JUL 07 2017



Department of Transport

Supplemental Type Certificate

This approval is issued to:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ontario
Canada K6A 1K7

Number: SH17-7

Issue No.: 1

Approval Date: March 17, 2017

Issue Date: March 17, 2017

Responsible Office:

Prairie and Northern

Aircraft/Engine Type or Model:

Robinson R66

Canadian Type Certificate or Equivalent:

H-111

Description of Type Design Change:

Heli-Utility-Basket

**Installation/Operating Data,
Required Equipment and Limitations:**

Installation of the Heli-Utility-Basket must be in accordance with Transport Canada Civil Aviation (TCCA) approved Dart Aerospace Ltd. Installation Instructions IIN-D066-1016 Revision B, dated February 20, 2017 or later TCCA approved revision.

Maintenance of the Heli-Utility-Basket must be in accordance with TCCA accepted Dart Aerospace Ltd. Instructions for Continued Airworthiness ICA-D066-1016 Revision 0, dated February 20, 2017 or later TCCA accepted revision.

Operation of the Heli-Utility-Basket must be in accordance with TCCA approved Dart Aerospace Ltd Flight Manual Supplement FMS-D066-1016 Revision A, dated February 13, 2017 or later TCCA approved revision.

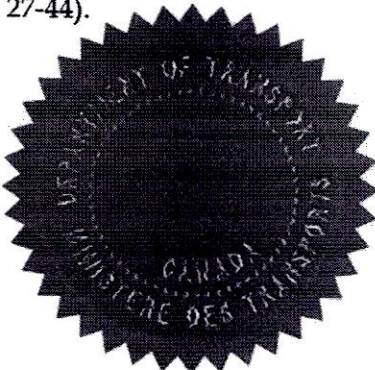
Definition of the Type Design Change:

TCCA approved Dart Aerospace Ltd. Master Document List MDL-D066-1016 Revision A, dated February 28, 2017 or later TCCA approved revision.

Basis of Certification for affected areas:

AWM 527, Change 527-8 dated June 30, 2009 (equivalent to 14 CFR Part 27 Amendment 27-1 through 27-44).

— End —



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

Loy Y. Liew
For Minister of Transport

Canada